

Appendix B

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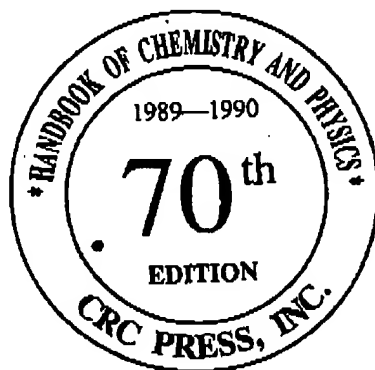
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CHEMISTRY
and
PHYSICS

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ELECTRONIC CONFIGURATION OF THE ELEMENTS

By Laurence S. Foster :

References: P. H. Spedding and A. H. Dasso, Editors, *The Rare Earths*, John Wiley and Sons, Inc. Publishers, New York, 1961. R. F. Gould, Editor, *Lanthanide-Actinide Chemistry*, Advances in Chemistry Series, No. 71, American Chemical Society, Washington, D.C., 1967. Paper No. 14, Mark Prad, *Electronic Structure of the Actinide Elements*.

Atomic No.	Element	K	L	M	N	O	P	Q			
		1	2	3	4	5	6	7			
		s	p	s	p	s	p	s	p	d	f
1	H	1									
2	He	2									
3	Li Be B C N O F Ne	2	1								
4		2	2								
5		2	2	1							
6		2	2	2							
7		2	2	2	1						
8		2	2	2	2						
9		2	2	2	2	1					
10		2	2	2	2	2					
11	Na Mg Al Si P S Cl Ar	2	2	1							
12		2	2	2							
13		2	2	2	1						
14		2	2	2	2						
15		2	2	2	2	1					
16		2	2	2	2	2					
17		2	2	2	2	2	1				
18		2	2	2	2	2	2				
19	K Ca Sc Ti V Cr Mn Fe Co Ni Cu Zn Ga Ge As Se Br Kr	2	2	2	1						
20		2	2	2	2						
21		2	2	2	2	1					
22		2	2	2	2	2					
23		2	2	2	2	2	1				
24		2	2	2	2	2	2				
25		2	2	2	2	2	2	1			
26		2	2	2	2	2	2	2			
27		2	2	2	2	2	2	2	1		
28		2	2	2	2	2	2	2	2		
29		2	2	2	2	2	2	2	2	1	
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31		2	2	2	2	2	2	2	2	2	1
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35		2	2	2	2	2	2	2	2	2	2
36		2	2	2	2	2	2	2	2	2	2
37	Rb Sr Y Zr Nb Mo Tc Ru Rh Pd Ag Cd In Sn Sb Te I Xe	2	2	2	2	1					
38		2	2	2	2	2					
39		2	2	2	2	2	1				
40		2	2	2	2	2	2				
41		2	2	2	2	2	2	1			
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53		2	2	2	2	2	2	2	2	2	2
54		2	2	2	2	2	2	2	2	2	2
55	Cs Ba La Ce Pr Nd Pm Sm Eu Gd Tb Dy Ho Er Tm Yb	2	2	2	2	2	1				
56		2	2	2	2	2	2				
57		2	2	2	2	2	2	1			
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59		2	2	2	2	2	2	2	1		
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61		2	2	2	2	2	2	2	2	1	
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70		2	2	2	2	2	2	2	2	2	2
71	Lu Hf Ta W Re Os Ir Pt Au Hg Tl Pb Bi Po At Rn	2	2	2	2	2	2	1			
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87	Fr Ra Ac Th Pa U Np Pu Am Cm Bk Cf Es Fm Md No Lr	2	2	2	2	2	2	2	1		
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104		2	2	2	2	2	2	2	2	2	2

* Note irregularity.